**Word Problems**

1. Show work demonstrating your answer:



1. In the right triangle below, what is the measure of angle A? (Give as a fraction of an inverse trig ratio, as in #1 above, and as a decimal.)



1. The triangle below has sides of 15 and 17.



* 1. What trig ratio can be used to find angle A?
  2. What is the measure of angle A?
  3. Describe two ways to find the measure of angle C:

1. In right triangle ,
   1. Draw this figure.
   2. What is the length of side *DE*?
   3. What is the measure of ∠D?
2. 

respectively. Draw the figure, then find the measure of angle A using all three inverse trig functions.